

UNCLASSIFIED

Verification and Validation of DTRA's Unified EM Design & Computer Demonstration

Robert F. Gray
March 7, 2008



Approved for public release

UNCLASSIFIED

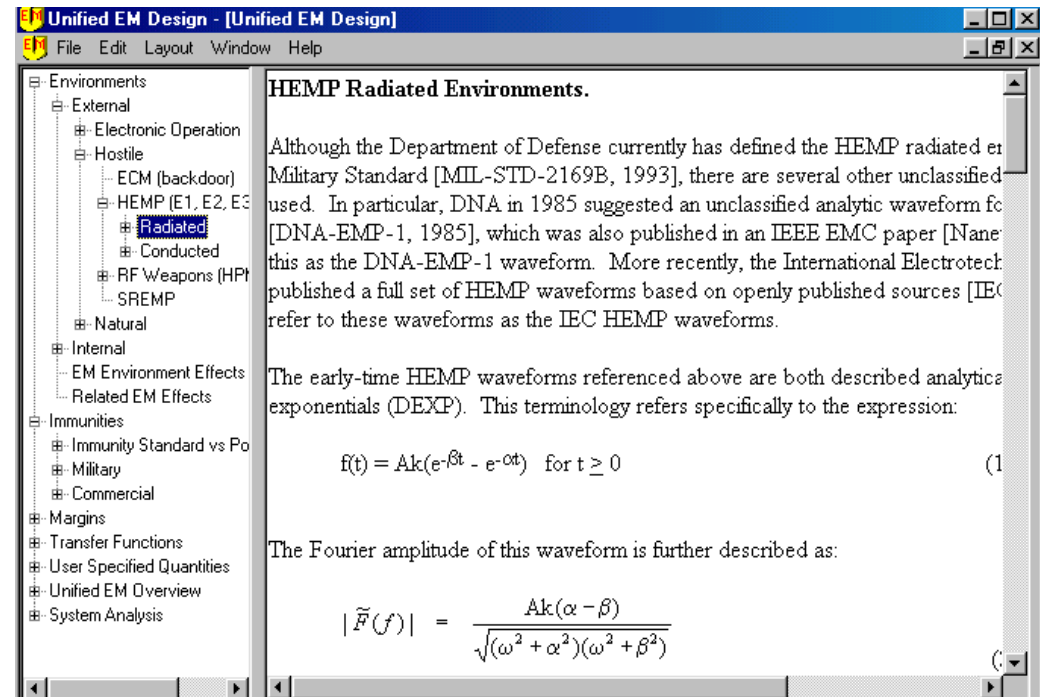
Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE MAR 2008		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Verification and Validation of DTRAs Unified EM Design & Computer Demonstration				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) ATK Mission Research, Newington, VA				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES See also ADM202664. Advanced Development of Unified Electromagnetic (EM) Design Software Capability					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES 4	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



UNCLASSIFIED

Example UEM Design Screen

- Explorer style user's interface
- Detailed information on
 - Environments,
 - Immunities,
 - Margins, and
 - Transfer functions
- On-line help
- System design tool
 - Topology
 - Barrier Performance Requirements
 - Enclosure Ports
 - Penetration Ports



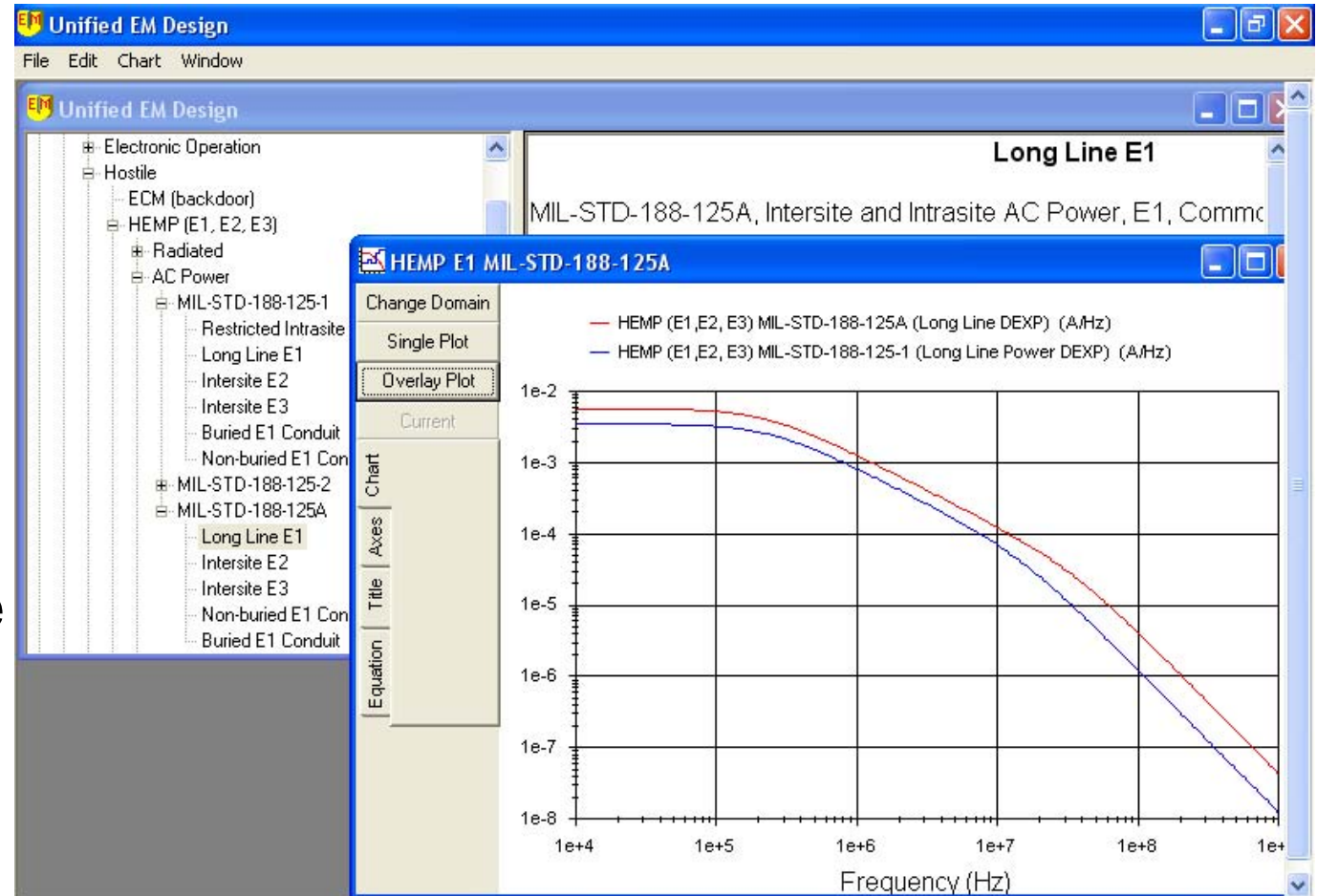
UNCLASSIFIED



UNCLASSIFIED

Comparison capability

- Comparison in time or frequency domain
- Environment versus Immunity
- Copy & Paste Charts



UNCLASSIFIED



UNCLASSIFIED

Summary

- Unified EM Design available free of charge to government agencies and their contractors
 - Request form at www.uemdesign.com
- Demonstration will cover all capabilities
- Poster paper on Verification and Validation of Version 2.3

UNCLASSIFIED